

PAH300S24-*

SPECIFICATIONS

C175-01-01A

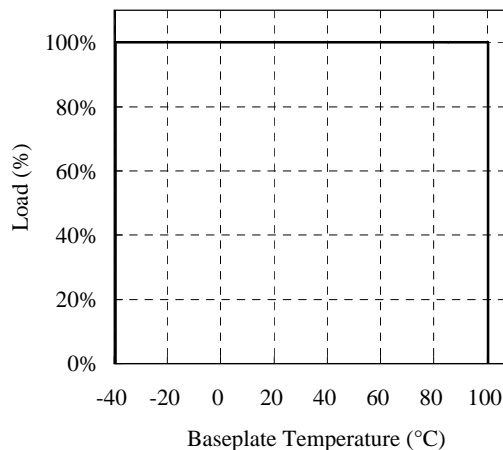
(This Specifications sheet also apply to option model /T)

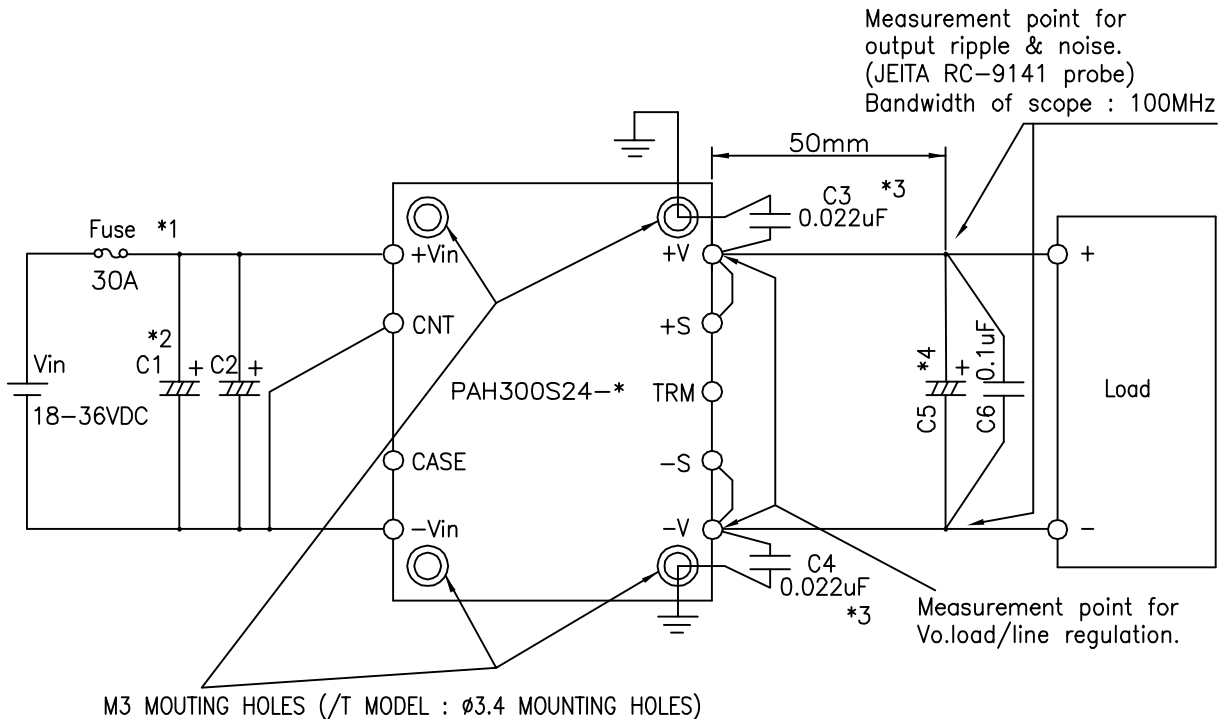
MODEL			PAH300S24-12	PAH300S24-28
ITEMS				
1	Nominal Output Voltage	V	12	28
2	Maximum Output Current	A	25	11
3	Nominal Output Power	W	300	308
4	Efficiency (Typ.)	(*1) %	87	88
5	Input Voltage Range	-	18 - 36VDC	
6	Input Current (Typ.)	(*2) A	14.71	15.10
7	Output Voltage Accuracy	(*2) %	±1	
8	Output Voltage Range	(*10) -	-40%, +10%	-40%, +18%
9	Maximum Ripple & Noise	(*10) mV	200	240
10	Maximum Line Regulation	(*3) mV	24	56
11	Maximum Load Regulation	(*4) mV	24	56
12	Over Current Protection	(*5) -	105% - 140%	
13	Over Voltage Protection	(*6)(*9) -	115% - 135%	125% - 140%
14	Remote Sensing	(*9) -	Possible	
15	Remote ON/OFF Control	(*9) -	Possible (SHORT : ON OPEN : OFF)	
16	Parallel Operation	(*9) -	—————	
17	Series Operation	(*9) -	Possible	
18	Operating Temperature	(*7) -	-40°C - +100°C(Baseplate) Ambient Temperature min=-40°C	
19	Operating Humidity	-	5 - 95%RH (No Dewdrop)	
20	Storage Temperature	-	-40°C - +100°C	
21	Storage Humidity	-	5 - 95%RH (No Dewdrop)	
22	Cooling	(*8) -	Conduction Cooled	
23	Temperature Coefficient (%)	-	0.02%/°C	
24	Withstand Voltage	-	Input-Baseplate : 1.5kVDC, Input-Output : 1.5kVDC for 1min. Output-Baseplate : 500VDC for 1min.	
25	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output-Baseplate...500VDC	
26	Vibration	-	At No Operating, 10-55Hz (Sweep for 1min.) Amplitude 0.825mm Constant (Maximum 49.0m/s ²) X,Y,Z 1 hour each	
27	Shock	-	196.1m/s ²	
28	Weight (Typ.)	g	90	
29	Size (W x H x D)	mm	61 x 12.7 x 57.9 (Refer to Outline Drawing)	

=NOTES=

- *1. At 24VDC, 80% of Maximum Output Current and Baseplate Temperature = +25°C.
- *2. At 24VDC and Maximum Output Current.
- *3. 18 - 36VDC, Constant Load.
- *4. No load - Full load, Constant input voltage.
- *5. Constant current limiting with automatic recovery.
- *6. Inverter shutdown method, Manual Reset.
- *7. Ratings - Refer to Derating Curve on the Right.
- Load(%) is Percent of Maximum Output Current.
- *8. Heatsink has to be Chosen According to Instruction Manual.
- *9. Refer to Instruction Manual.
- *10 External Components are Needed for Operation.
(Refer to Basic Connection and Instruction Manual)

Derating Curve





==NOTES==

- *1. Use external fuse of fast blow type, for each unit.
- *2. Put input capacitor, C1 and C2, more than 220uF each.
If the ambient temperature is less than -20°C ,
use twice of the recommended capacitor above.
If the impedance of input line is high,
C1 and C2 capacitance must be more than above.
- *3. Connect capacitors between +V and the nearest M3 mounting hole and between -V and the nearest M3 mounting hole.
However, for cases where baseplate is connected to +V or -V, use the nearest M3 mounting hole.
For this type connection, C3 and C4 can be omitted.
- *4. Put output capacitor, C5 (12V: more than 470uF, 28V: more than 220uF.)
If the ambient temperature is less than -20°C ,
use 3 pieces of the recommended capacitor above.
- *5. Refer to instruction manual for further details.

(unit : mm)

MODEL NAME	PAH300S24
DENSEI-LAMBDA	

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